

DaqLink 4 Channel Multi-probe Data Logger

4 external inputs + internal humidity and temperature sensors



Light, portable and independent logging

DaqLink, USB stand-alone data logger: High functionality in a simple package.

With built-in temperature and humidity sensors, plus four external probe inputs *DaqLink* ensures a low cost, reliable and accurate solution. For continuous indoor or outdoor data monitoring, *DaqLink* data logger is the tool of choice.

DaqLink provides a flexible and budget-friendly solution:

- Real-time - Online operation with data results on screen
- Independent - Manual or PC operation with on-site monitoring via two-row LCD display
- Intuitive - Simple keypad and easy-to-navigate menus
- Long life - Rechargeable battery lasting up to 6 months
- Variety - Four alarm levels with visual LCD, and audible alarms
- Non-stop - Continuous data storage to large onboard memory and periodic USB downloads



DaqLink 4 Channel Multi-probe Data Logger

Stand-alone data logging with:

2 Internal Sensors:

Temperature -20 to 50 °C
Humidity 5 to 95 %



4 External Inputs:

4 to 20 mA
0 to 50 mV
0 to 1 V
Temperature PT-100 2-wire
Temperature Thermocouple J
Temperature Thermocouple K
Temperature Thermocouple T
Frequency
Pulse Counter
Contact



2 External Outputs:

12 V Power Output
Alarm Device

User friendly analysis software is used to detect the DaqLink logger automatically

Operating System:

Windows® 2000 Service Pack 3

Windows® 2003

Windows® XP Service Pack 2 or higher

Windows® Vista

Internet Explorer 5.1 or higher

Hardware Requirements:

Pentium 800 MHz or higher

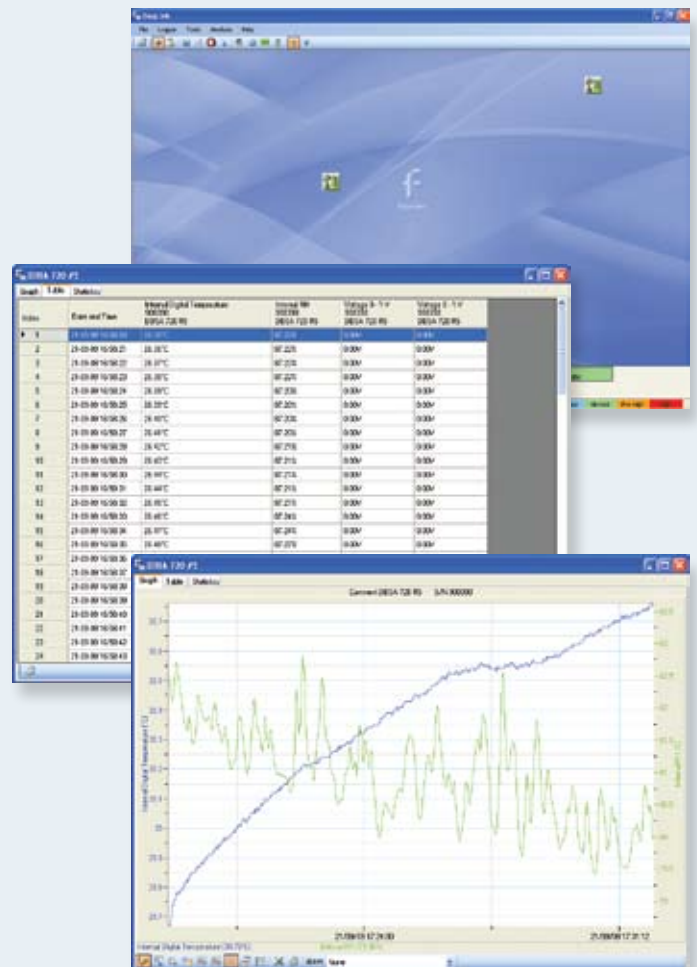
256 MB RAM

250 MB available disk space



Data View Features

- Real-time data in multiple displays (show table, graph, statistics)
- Ability to rename every logger and external input
- Online sensor view



Alarm Features

- 4 alarm levels allow programming of 4 separate parameters with alarm delay and duration
- Ability to add and edit contacts and distribution groups
- Alarming via SMS/Email/Text messaging



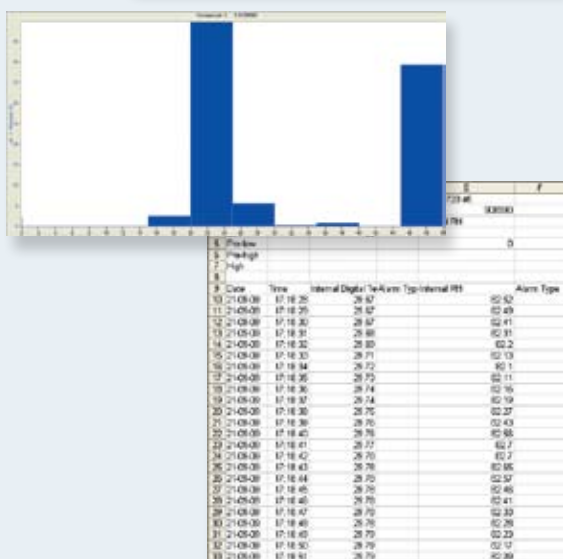
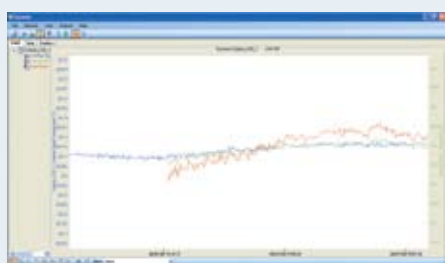
Setup Features

- Logger setup with Celsius or Fahrenheit view
- User configurable data file and text file storage path
- Ability to define custom sensors based on current, voltage and pulse inputs



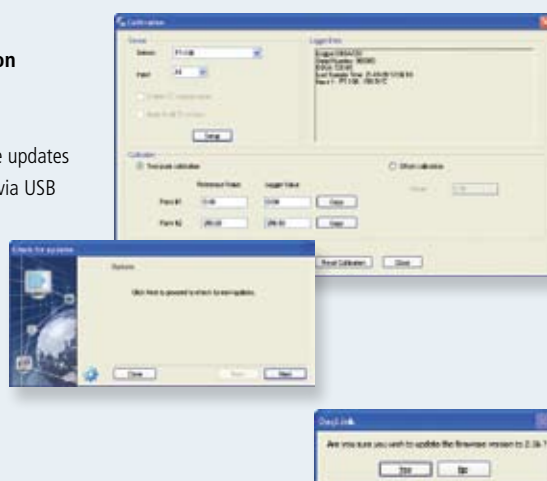
Analysis Features

- Dew point analysis, histogram, statistics with export to Excel and CSV formats



Hardware Communication Features

Logger firmware updates and calibration via USB



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Specifications

DAQLINK INPUTS

DBSA710 and DBSA720 Input Types

4 to 20 mA

- Range: 4 to 20 mA
- Resolution: 4.76 μ A
- Accuracy: ± 0.5 %
- Loop impedance: 21 Ω
- Maximum load: 30 mA, 5.2 V

0 to 50 mV

- Range: 0 to 50 mV
- Resolution: 3 μ V
- Accuracy: ± 0.5 %
- Input impedance: 25 M Ω
- Maximum voltage: 5.2 V

0 to 1 V

- Range: 0 to 1 V
- Resolution: 200 μ V
- Accuracy: ± 0.5 %
- Input impedance: 25 M Ω
- Maximum voltage: 5.2 V

Temperature PT-100 (2-wires)

- Range: -200 to 400 $^{\circ}$ C
- Resolution: 0.1 $^{\circ}$ C
- Accuracy: -200 to -60 $^{\circ}$ C ± 0.5 %
-60 to 60 $^{\circ}$ C ± 0.3 %
60 to 400 $^{\circ}$ C ± 0.5 %

Temperature Thermocouple J

- Range: -200 to 1,000 $^{\circ}$ C
- Resolution: 0.1 $^{\circ}$ C
- Accuracy: -200 to -60 $^{\circ}$ C ± 0.5 %
-60 to 60 $^{\circ}$ C ± 0.5 %
60 to 1,000 $^{\circ}$ C ± 0.5 %
- Cold junction compensation error: ± 0.3 $^{\circ}$ C

Temperature Thermocouple K

- Range: -200 to 1,000 $^{\circ}$ C
- Resolution: 0.1 $^{\circ}$ C
- Accuracy: -200 to -60 $^{\circ}$ C ± 0.5 %
-60 to 60 $^{\circ}$ C ± 0.5 %
60 to 1,000 $^{\circ}$ C ± 0.5 %
- Cold junction compensation error: ± 0.3 $^{\circ}$ C

Temperature Thermocouple T

- Range: -200 to 400 $^{\circ}$ C
- Resolution: 0.1 $^{\circ}$ C
- Accuracy: -200 to -60 $^{\circ}$ C ± 0.5 %
-60 to 60 $^{\circ}$ C ± 0.5 %
60 to 400 $^{\circ}$ C ± 0.5 %
- Cold junction compensation error: ± 0.3 $^{\circ}$ C

Frequency (input 4 only)

- Zero crossing detector
- Range: 20 Hz to 4 KHz
- Input signal: 0 to 4,000 Hz
- Input impedance: 470 Ω

Pulse Counter (input 4 only)

- Zero crossing detector
- Range: 1 to 65,536 counts
- Resolution: 1 count
- Frequency range: 0 to 4,000 Hz
- Input signal: 0 to 5 V
- Input impedance: 470 Ω

Contact

- Range: Open/Closed

Internal Temperature

- Type: DBSA710: PT-100
DBSA720: Digital
- Range: -20 to 50 $^{\circ}$ C
- Resolution: 0.1 $^{\circ}$ C
- Accuracy: DBSA710: ± 0.3 $^{\circ}$ C
DBSA720: ± 0.5 $^{\circ}$ C

Internal Humidity (for DBSA720)

- Range: 5 to 95 %
- Resolution: 0.5 %
- Accuracy: ± 3 % at 10 to 90 %
 ± 5 % at 5 to 10 %
and 90 to 95 %

DAQLINK OUTPUTS

- 12 V Power output
- External Alarm

DAQLINK LOGGER SAMPLING FEATURES

- Memory capacity: ~59,000 samples
- Sampling rate: One every second to one every 18 hours
- Sampling resolution: 16-bit
- Channel separation: 80 dB

DAQLINK HARDWARE SPECIFICATIONS

DBSA710 and DBSA720

Display

- 2-row LCD
- 16 character display

Memory Modes

- Cyclic/Non-Cyclic
- Push to Run
- Pause

Power Supply

- Internal rechargeable 4.8 V NiMH battery
- Built-in battery charger
- External 12 V DC input

Operating Temperature Range

- -20 to 50 $^{\circ}$ C
- Water and dust proof: IP54

PC Communication

- USB 2.0 compliance
- Mini USB type B cable

Length and Temperature specifications are provided in Metric and Celsius units

Casing

- Plastic ABS box
- Dimensions: 104 x 93 x 27 mm
- Weight: 153 gr
- Table and wall mounting

GENERAL DAQLINK SPECIFICATIONS

Man Machine Interface

- Two-button keypad operation

Standards Compliance

- CE, FCC

DAQLINK SOFTWARE MAIN FEATURES

- Windows[®] based software
- Data displayed in numeric or graphical display of all inputs
- On-line retrieval and display of the collected data in real-time
- Definition of new sensors
- Full calibration of the loggers via the software
- Documentation and filing
- Alarm levels on graphs
- Export to spreadsheets
- Analytical functions, for professional analysis of the collected data
- Manual backup of calibration settings
- USB firmware update
- Report feature

AVAILABLE EXTERNAL SENSORS

PT-100 Sensor*

- Range: -70 to 400 $^{\circ}$ C
- Cable length: 2.5 m / 4 m / 6 m
- Teflon cable range: -65 to 200 $^{\circ}$ C
- Probe: Diameter 6 mm,
Length 81 mm

*See ordering information section

ORDERING INFORMATION

DBSA710	Internal Temp USB logger + 4 external inputs
DBSA720	Internal Temp&Humidity USB logger + 4 external inputs
12504	GSM Modem (for SMS alerts)
DQL-PCSUITE	PC Suite DaqLink Software CD
12753	PT-100 sensor (2-wire) 2.5 m
12752	PT-100 sensor (2-wire) 4 m
12751	PT-100 sensor (2-wire) 6 m
11304	Replacement internal battery pack
12655	Replacement 1m Mini USB communication cable
13330	Optional 3m Mini USB communication cable
DT246	Replacement 110/12 V AC/DC US adapter
DT245	Replacement 110/12 V AC/DC European adapter
DT282	Replacement 110/12 V AC/DC UK adapter